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1 26. (New) A device for monitoring an analyte in an environment, said
2 device comprising:

3 at least one sensor array, wherein said at least one sensor array comprises
4 at least two sensors capable of producing a first response in the presence of a chemical
5 stimulus, said at least two sensors consisting of sensors selected from the group consisting
6 of an electrochemical sensor, a chemiresistor, a SAW sensor and combinations thereof;

7 a second sensor which is capable of producing a second response in the
8 presence of a physical stimulus, wherein said physical stimulus is an electrical stimulus;

9 a connector that connects said at least one sensor array and said second
10 sensor to a central processing unit, said central processing unit collects and stores said
11 first and second responses; and

12 an analyzer configured to analyze a plurality of responses wherein said
13 analyzer monitors said analyte in said environment.

1 27. (New) The device according to claim 26, wherein said second
2 sensor detects a charge or current.

1 28. (New) The device according to claim 26, wherein said device is a
2 handheld device.

1 29. (New) The device according to claim 28, wherein each of said at
2 least two sensors is a conducting/nonconducting regions sensor.

1 30. (New) The device according to claim 26, wherein the second
2 sensor further determines the velocity or acceleration of said analyte.

1 31. (New) The device according to claim 28, wherein said handheld
2 device further comprises a communication interface coupled to the processing device and
3 configured to communicate with a computer network.

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